

# Claims

- [c1] 1. A fuel control system for an internal combustion engine, comprising:  
a signal generator generating an unmodified fuel demand signal based on an accelerator pedal position; and,  
a controller for producing a modified fuel demand signal based on said unmodified fuel demand signal and a bias value, said bias value being a predetermined offset from a base fuel demand signal, said base fuel demand signal being sufficient to maintain the engine in an idle condition, said controller delivering an amount of fuel to said engine based on a greater of said modified fuel demand signal and said base fuel demand signal.
- [c2] 2. The fuel control system recited in claim 1 wherein the controller is a semiconductor chip.
- [c3] 3. A fuel control system for an internal combustion engine, comprising:  
an idle speed fuel controller generating a base fuel demand signal sufficient to maintain the engine in an idle condition;  
an accelerator pedal fuel demand signal generator generating an unmodified pedal position fuel demand signal based on an accelerator pedal position; and,  
a controller for producing a modified pedal position fuel

demand signal, said modified pedal position fuel demand signal being substantially equal to said unmodified pedal fuel demand signal increased by a bias value, said bias value being a predetermined offset from the base fuel demand signal, said base fuel demand signal enabling idle operation of said engine, said controller delivering an amount of fuel to said engine based on a greater of said modified fuel demand signal and said base fuel demand signal.

[c4] 4. The fuel control system recited in claim 1 wherein the controller is a semiconductor chip.

[c5] 5. A method for controlling fuel for an internal combustion engine, comprising:  
providing a first fuel demand signal from an idle speed fuel controller;  
providing a second fuel demand signal from a pedal position signal generator;  
producing a third fuel demand signal being substantially equal to the second fuel demand signal increased by a bias value, the bias value being a predetermined offset from the first fuel demand signal; and,  
delivering an actual fuel amount to said engine based on a greater of said first fuel demand signal and said third fuel demand signal.

[c6] 6. An article of manufacture, comprising:  
a computer storage medium having a computer program  
encoded therein for controlling fuel delivery to an engine, said  
computer storage medium comprising:  
code for receiving a first fuel demand signal from a pedal  
position signal generator;  
code for generating a second fuel demand signal for obtaining  
an engine idle condition;  
code for producing a third fuel demand signal being  
substantially equal to the first fuel demand signal increased by  
a bias value, the bias value being a predetermined offset from  
the second fuel demand signal; and,  
code for delivering an actual fuel amount to said engine based  
on a greater of said second fuel demand signal and said third  
fuel demand signal.